

NOISE SUPPRESSION STRUCTURE AND METHOD OF MAKING THE SAME

ABSTRACT OF THE DISCLOSURE

An integrated noise suppression acoustic panel includes a back plate, a face plate, and a bulk foam absorber disposed between the back plate and the face plate. The bulk foam absorber is formed of a thermoset material, such as bismaleimide or phenolic, and is manufactured using a low pressure process. In particular, a foamable material is melted, and a blowing agent is mixed with the foamable material to obtain a mixture. The foam is formed and the mixture is cured by heating it to a temperature, and maintaining the mixture at the temperature for a time sufficient to cure the mixture.